

MODULAR Total hip arthroplasty



groupe lépine

MBA stem - a serene implant experience

Joint biomechanics must be preserved during total hip arthroplasty. The need to adapt to specific anatomical situations requires the prosthesis to be perfectly positioned. MBA anatomical stems (left and right) adapt to the shape of the patient's femur and suit all morphologies.

FEATURES

Modular
Freedom of choice during the surgical procedure for a better rehabilitation of extra-medullary characteristics.

Biconical
■ Meets modularity requirements.
■ Makes acetabular revisions easier.
The self-aligning nature of the MBA oblique modular neck effectively compensates a poor positioning and the risk of dislocation.

Anatomical
■ With 8 sizes available, the proximal part of the MBA stem provides optimal filling of the femur metaphysis.
■ The curve of the implant adapts to the shape of the femur and increases the contact area.
■ Optimal bone/stem contact ensures excellent stability and fast bone integration.
■ The cemented version can overcome a lack of primary stability.

ADVANTAGES

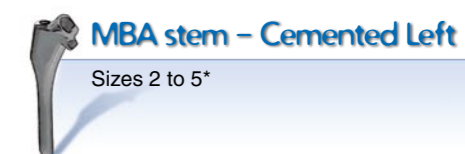
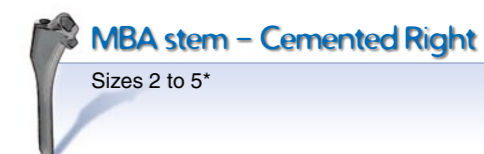
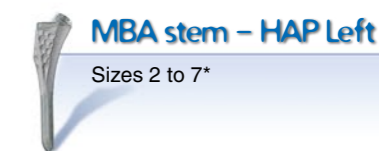
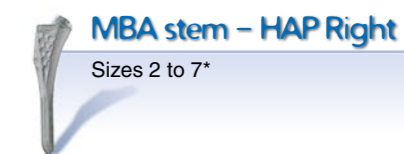
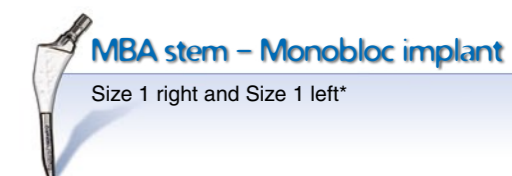
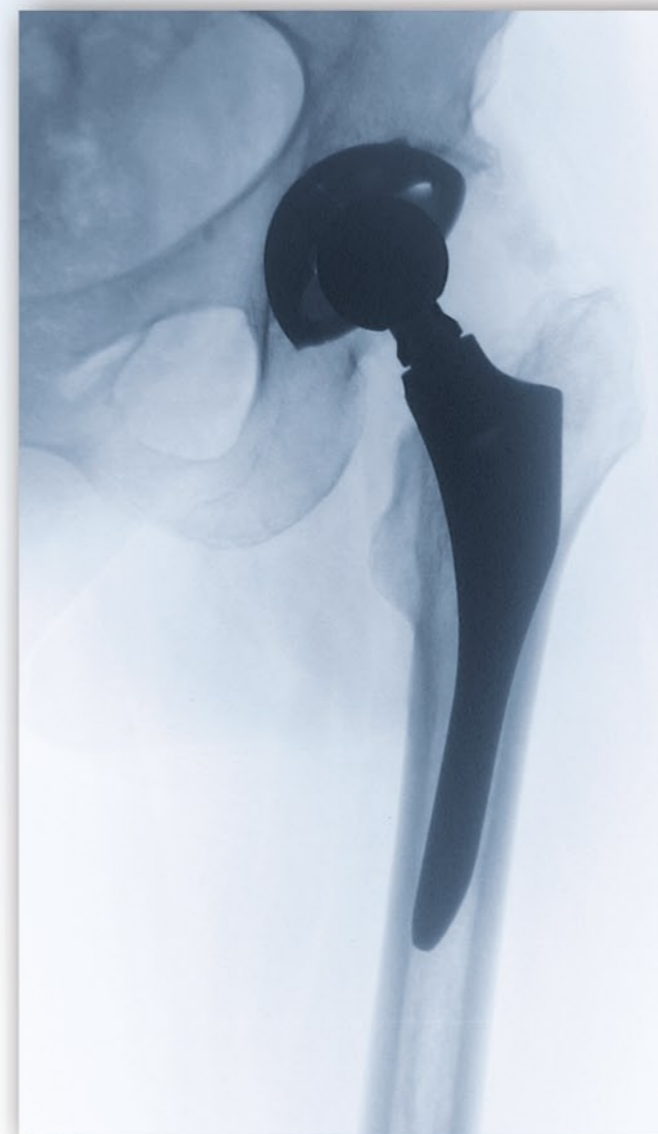
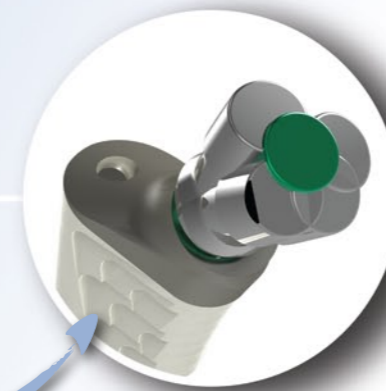
Range of 12/14 modular necks

- Straight (femoral neck angle of 135°) and angled to use with different phenotypes.
- Standard modular neck (straight) restoring the natural orientation of the femur.
- Angled neck option: varus, anteversion, retroversion to correct unsatisfactory inclination or femoral version.

Dedicated instrumentation

- Simple and ergonomic, it enables surgeons to test the stability, length and femoral neck version at every step of the surgical procedure.

Bilayer coating of vacuum-plasma sprayed pure titanium and hydroxyapatite



*Please refer to our product reference sheet

MBA acetabular cup - Elasticity improving Press-fit stabilization

Based on a concept backed by 20 years of clinical follow-up, the MBA cup immediately provides primary stability, while maintaining the elasticity in the acetabulum. Three slots confer this elasticity ensuring optimal primary stability and close contact with the acetabular cavity, which results in good secondary bone integration.

2 spikes ensuring that the cup does not tip

2 fins providing rotational stability

Bilayer coating T40 and hydroxyapatite

3 slots with 0.5 mm ϕ conferring elasticity during impaction

Notches preventing polyethylene liner rotation

Hemisphere shape stopping 2 mm below the equator

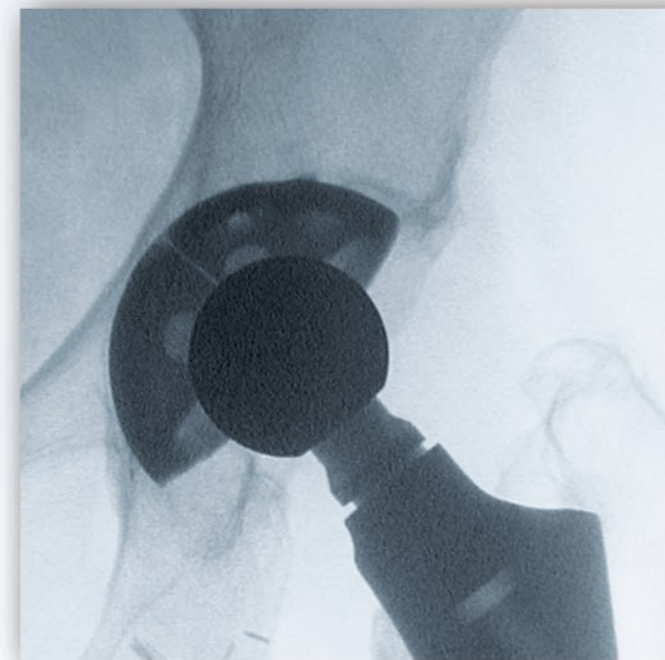
Holes for cancellous bone screws

FEATURES

- Optimal acetabular shell thickness
- 3 slots conferring elasticity to the cup
- Macrostructure increasing primary stability
- Available cover and constrained revision inserts providing more options to adapt to the patient's pathology.

ADVANTAGES

- Preserving the natural elasticity of the acetabulum
- Optimal primary stability, ensuring good secondary bone integration



Used since 1997, the MBA cup has proved to be effective in both primary and revision cases.



MBA cup - HAP

Sizes 44 to 62*



U PE constrained insert

Sizes 44 to 62, ϕ 22.2 and 28 mm*



U PE cover insert

Sizes 48 to 62, ϕ 22.2 and 28 mm*



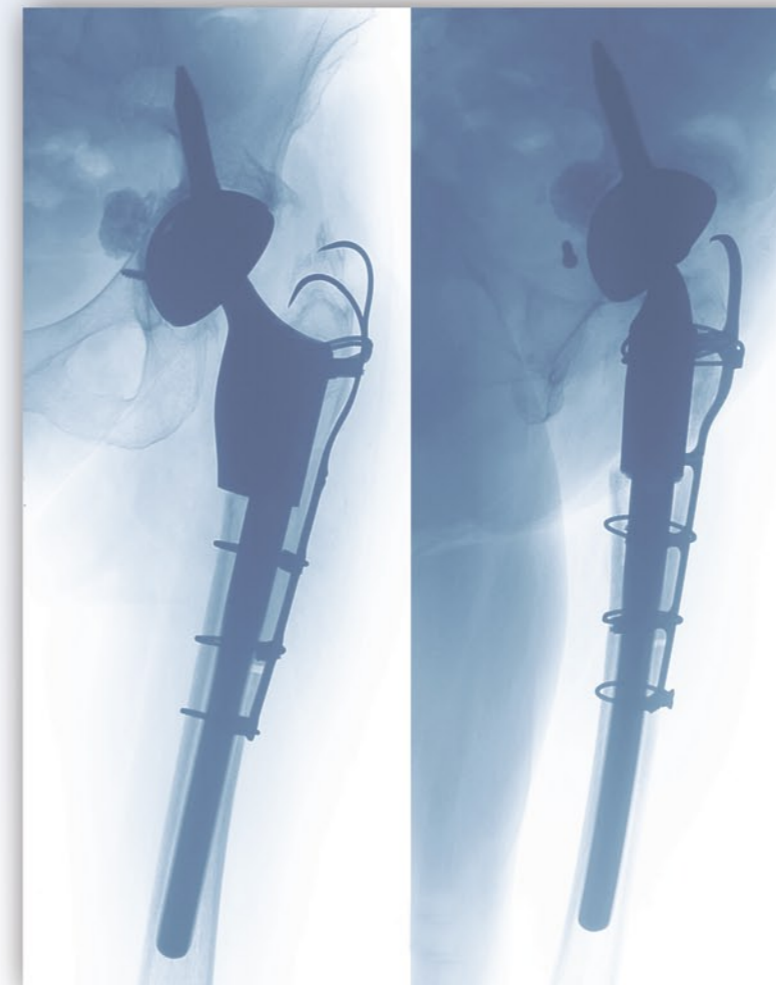
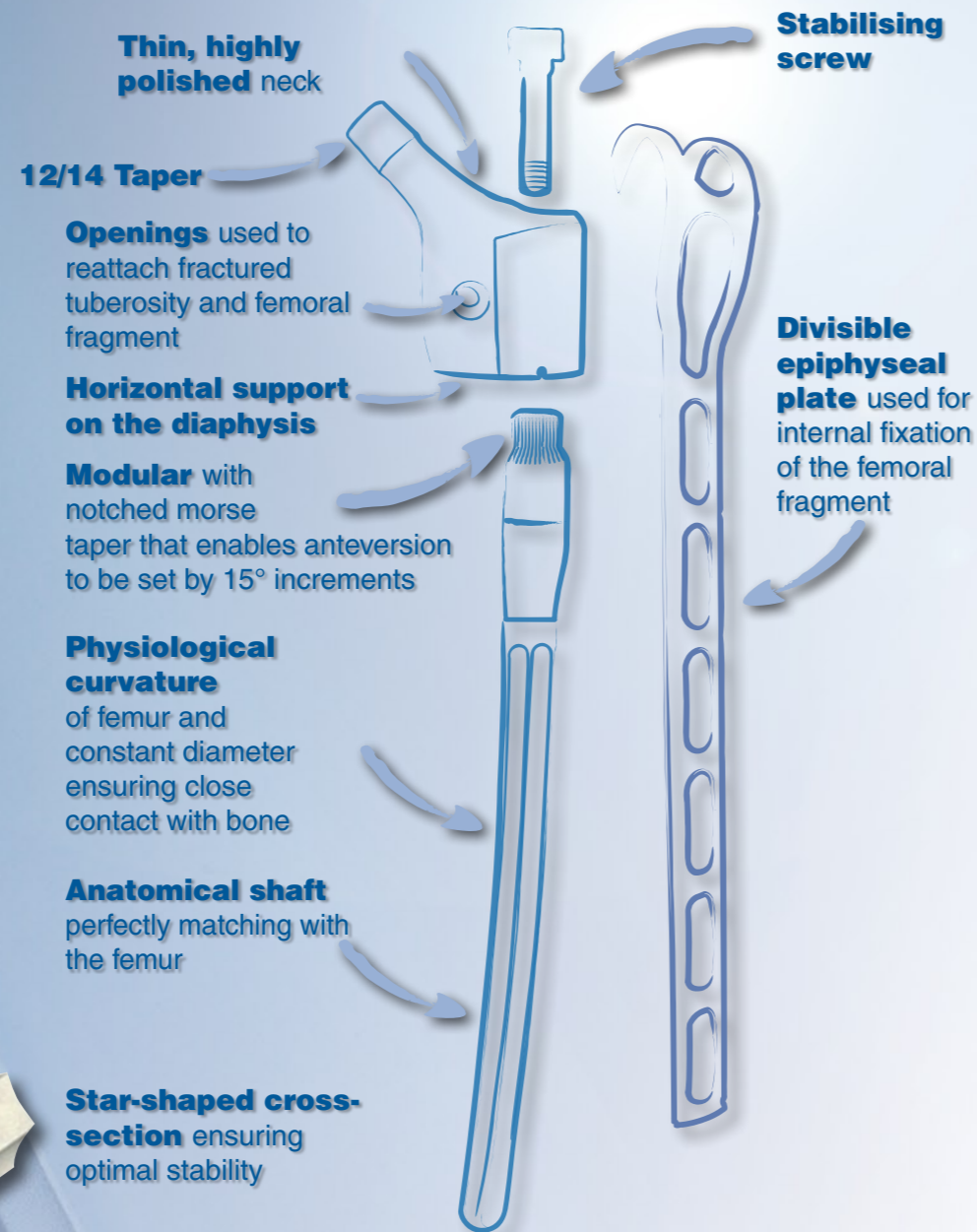
Cancellous screw ϕ 5.5 mm

Sizes 20 to 55*

*Please refer to our product reference sheet

INTEGRA stem - More than just an implant

The INTEGRA revision and reconstruction range offers the most complete solution to meet the needs of patients with significant bone loss requiring special treatment.



INTEGRA meta block HAP

Standard heights of 30, 40 and 60 mm
Heights of 80, 100 and 120 mm available on special request*

INTEGRA stem HAP, lock and no lock

Sizes 11 to 17, length 140 to 240 mm, locking option available*

INTEGRA cemented stem

Sizes 11 and 13, length 160 and 200 mm*

Wedge Ø 5.5 mm

Length 28 to 40 mm*

INTEGRA epiphyseal plate

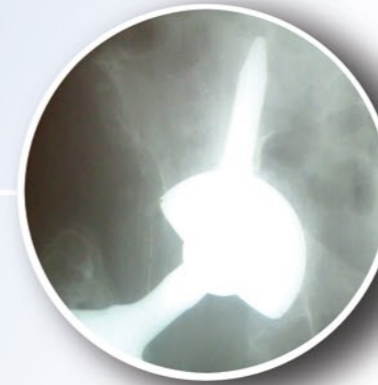
ADVANTAGES

- The INTEGRA revision and reconstruction stem is an innovative product that was designed to meet surgeon needs.
- The extensive product range covers the range of bone loss and fragmentation situations.
- Curved stem with star-shaped cross-section provides optimal stability
- The modularity of the proximal block counters dislocation by controlling anteversion.

*Please refer to our product reference sheet

INTEGRA cup - Optimal bone fixation for cases of severe bone loss

No matter how much bone is lost from the acetabulum, the iliac isthmus (iliopubic beam) provides a solid, reliable anatomical structure that can accept a fixation peg. The iliac isthmus provides solid anchoring for the INTEGRA dual mobility cup without the need for a peripheral flange.



One-piece cast peg with star-shaped cross-section

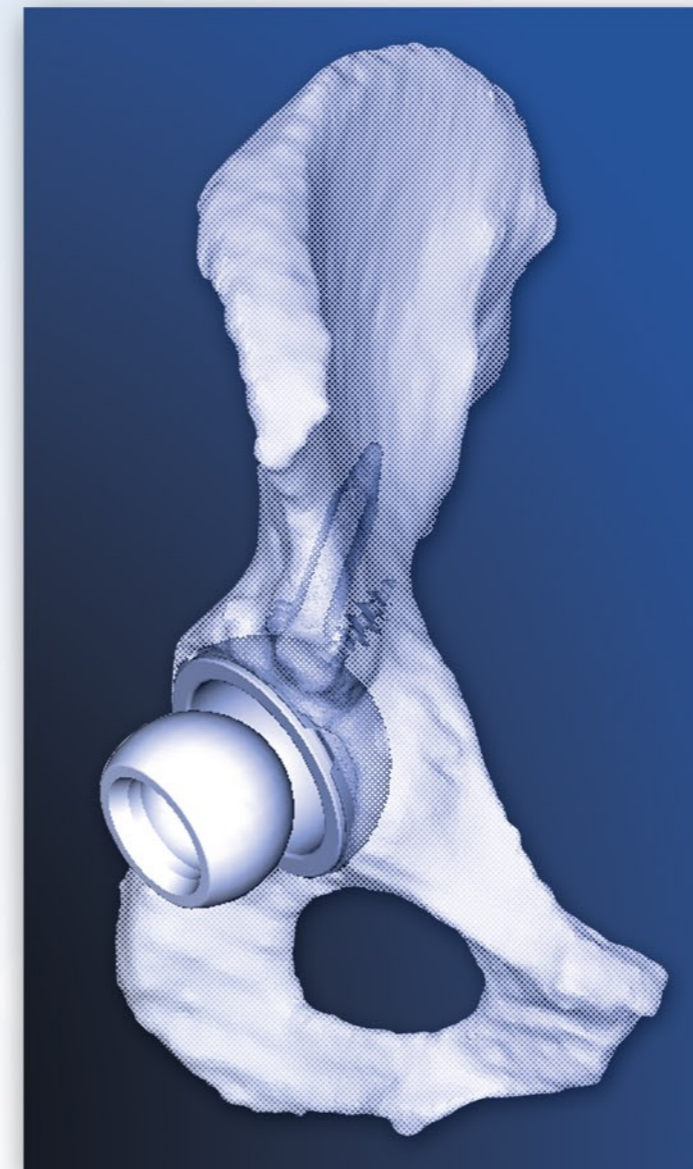
Precise orientation (55° angled peg) that is well-suited to the alignment of the iliac isthmus

Possibility of **additional stabilization** with screws

Intermediate metal insert with morse taper

Bilayer coating T40 and hydroxyapatite

Dual mobility with constrained liner



Stability ensured even without peripheral fixation



INTEGRA revision cup HAP

Sizes 50 to 62*



INTEGRA cup - HAP

Sizes 50 to 62*



INTEGRA insert

Sizes 50 to 62*



Dual mobility liner

For cup sizes 50 to 62*

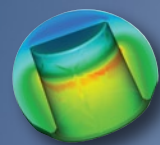


Fixation screw

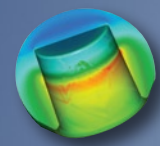
Length 20 to 60 mm*

*Please refer to our product reference sheet

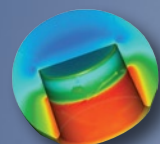
Modularity: a well-planned choice



For both primary and revision cases, modularity allows the surgeon to restore normal hip anatomy and joint muscle balance. The goal is to improve functional results, and also to reduce excessive loading of the implant.

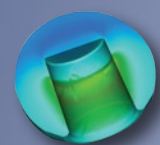
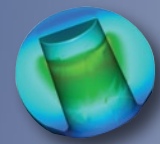


However, modularity can have a negative impact on mechanical strength. Stress concentrations, surface roughness, coating effects, metal compatibility and corrosion resistance are parameters to validate at every design and manufacturing step to prevent incidents that could compromise the expected results.



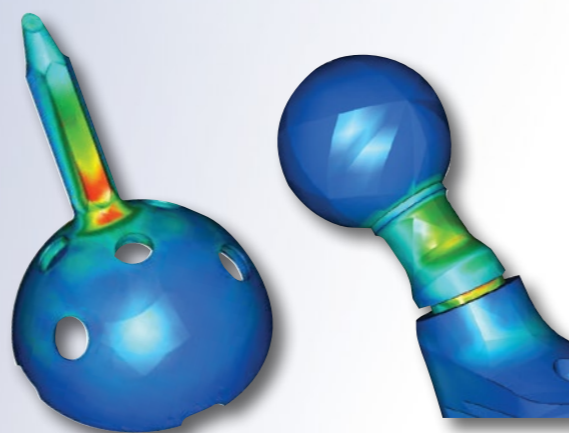
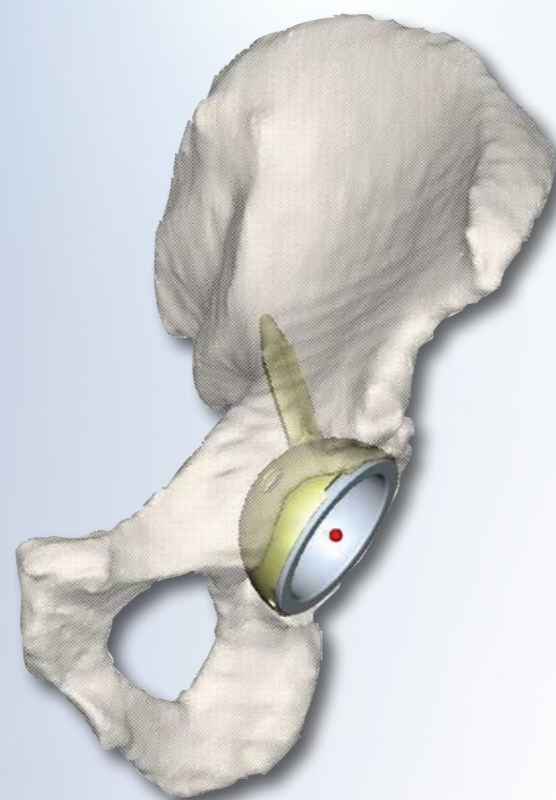
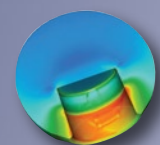
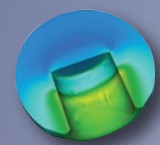
Designed to meet biomechanical requirements

The angle and cross-sectional shape are analyzed to achieve the best possible risk-benefit ratio between the biomechanics and mechanical strength.



Finite element analysis of the most critical implant assembly configuration

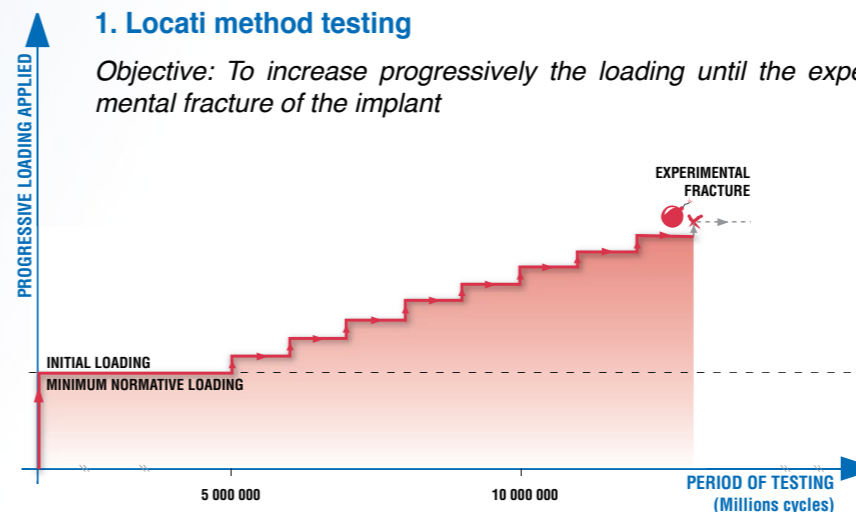
The areas subjected to traction loading are modeled for all the modular parts. Stress concentrations are identified and quantified, while taking into account the junctions, shapes and materials.



Determination of theoretical endurance limit of implants (the most constraint configuration)

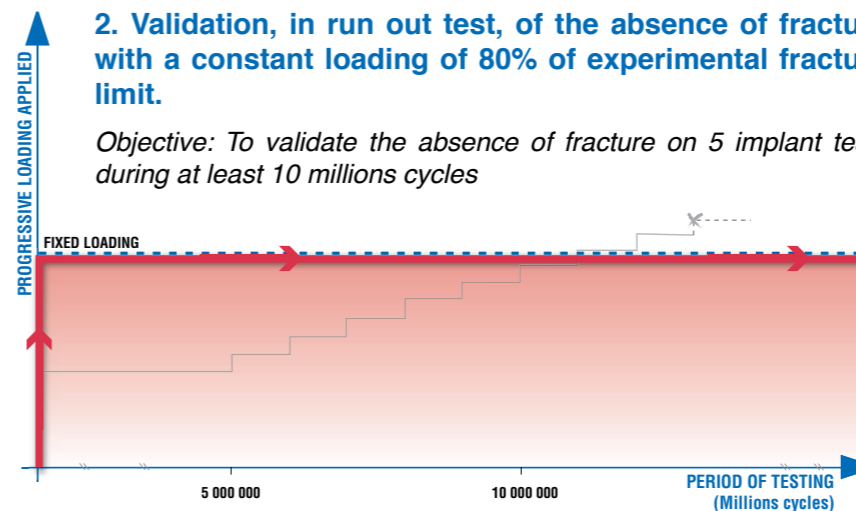
1. Locati method testing

Objective: To increase progressively the loading until the experimental fracture of the implant



2. Validation, in run out test, of the absence of fracture with a constant loading of 80% of experimental fracture limit.

Objective: To validate the absence of fracture on 5 implant tests during at least 10 millions cycles



Titanium alloy

The cementless MBA stems, INTEGRA proximal blocks and INTEGRA distal stems, MBA cups and INTEGRA cups are made of a forged titanium, aluminum and vanadium alloy in compliance with ISO 5834-3.

Stainless steel

The MBA cemented stems and metal femoral heads are machined from high nitrogen stainless steel in compliance with ISO 5832-3.

Polyethylene

The inserts and dual mobility liners are machined from bars of ultra-high-molecular-weight polyethylene, in compliance with ISO 5834-2.

Ceramic

The femoral heads are made of highly pure alumina ceramic, in compliance with ISO 6474.

Cobalt chromium alloy

The MBA modular neck are made of wrought cobalt-chromium-molybdenum alloy, in compliance with ISO 5832-12.

Coating

Hydroxyapatite chemical characteristics are determined and validated for each spraying campaign according to ISO 13779-3. Traction adhesion is set in compliance with ISO 13779-4.



In theory, modularity is the most effective technical approach to meet all the requirements of orthopedic surgeons who want to ensure that joints are stable, leg length is equal and muscle tension is restored.

GROUPE LEPINE is committed to make all these needs co-exist with optimal and safe use of these implants, based on its manufacturing know-how (1-3), which takes into account a unique mechanical environment, as well as a published clinical follow-up (4-9).

BIBLIOGRAPHY

1. Aslanian T. Les matériaux constitutifs des prothèses de hanche. Histoire, évolutions et tendances. Arthroplastie totale de hanche de 1ère intention : A la recherche du « Gold Standard ». Sauramps Medical ed. Montpellier: 2011. p.113-32.
2. Aslanian T, Raossanaly C ; Verdier R. Les fractures d'implant : rares et chères. Arthroplastie totale de hanche de 1ère intention : A la recherche du « Gold Standard ». Sauramps Medical ed. Montpellier: 2011. p.553-66.
3. Aslanian T. Reprise de prothèse totale de hanche : contraintes et solutions industrielles. La reprise de prothèse totale de hanche. Sauramps Médical ed. Montpellier: 2006. p. 527-544.
4. Trouillas J, Verdier R. Tige fémorale anatomique sans ciment MBA : apport de la modularité. Arthroplastie totale de hanche de 1ère intention : A la recherche du « Gold Standard ». Sauramps Medical ed. Montpellier: 2011. p.211-20.
5. Escaré P. Le cotyle élastique sans ciment MBA : résultats de 105 implantations à 9,5 ans de recul médian. Arthroplastie totale de hanche de 1ère intention : A la recherche du « Gold Standard ». Sauramps Medical ed. Montpellier: 2011. p.327-38.
6. Tricoire JL. Le cotyle et son isthme iliaque : anatomie, anthropologie et biomécanique. La reprise de prothèse totale de hanche. Sauramps Médical ed. Montpellier: 2006. p. 171-180.
7. Connes H, Desbonnet P, Escaré P, Tricoire JL, Trouillas J. Du descellement à la migration de l'implant cotyloïdien. La reprise de prothèse totale de hanche. Sauramps Médical ed. Montpellier: 2006. p. 181-192.
8. Desbonnet P, Tricoire JL, Connes H, Escaré P, Trouillas J. Le cotyle à plot « Intégra » dans les reprises d'arthroplastie de hanche avec grande destruction osseuse. La reprise de prothèse totale de hanche. Sauramps Médical ed. Montpellier: 2006. p. 379-402.
9. Trouillas J, Escaré P, Connes H, Desbonnet P. Reconstruction métaphysaire et tige anatomique – Le concept Intégra. La reprise de prothèse totale de hanche. Sauramps Médical ed. Montpellier: 2006. p. 475-502.



groupe lépine

175 rue Jacquard - ZI Lyon Nord
69730 Genay - FRANCE
TEL. +33 (0)4 72 33 02 95
FAX +33 (0)4 72 35 96 50
www.groupe-lepine.com



lépine ALGERIE

9 rue philosophe Tabrizi
Les sources
Bir Mourad Rais - ALGER
lepine-algerie@groupe-lepine.com



lépine IBÉRICA

C/J.J. Tadeo Murguía
N. 3 - 5 BAJO
20304 IRÚN (GUIPÚZCOA)
lepine-iberica@groupe-lepine.com



lépine ITALIA

Via Cassanesse, 100
Segrate (Milano)
lepine-italia@groupe-lepine.com



lépine MAROC

79 avenue IBN SINA
10080 RABAT - AGDAL
lepine-maroc@groupe-lepine.com

Range of INTEGRA femoral stems



INTEGRA HAP stem no lock

Size	Length (mm)	Ref.
11	140	HID HV114
11	160	HID HV116
11	200	HID HV120
11	240	HID HV124
13	140	HID HN314
13	160	HID HN316
15	140	HID HN514
15	160	HID HN516
17	140	HID HN714
17	160	HID HN716



INTEGRA HAP stem lock

Size	Length (mm)	Ref.
13	200	HID HV320
13	240	HID HV324
15	200	HID HV520
15	240	HID HV524
17	200	HID HV720
17	240	HID HV724



INTEGRA CEM stem

Size	Length (mm)	Ref.
11	160	HID CV116
13	160	HID CV316
13	200	HID CV320



Wedge Ø5,5 mm

Length (mm)	Ref.
28	HIV 55028
30	HIV 55030
32	HIV 55032
34	HIV 55034
36	HIV 55036
38	HIV 55038
40	HIV 55040
45	HIV 55045
50	HIV 55050



INTEGRA meta block HAP

Height	Ref.
30	HIM HD030
40	HIM HD040
60	HIM HD060
80*	HIM HD080
100*	HIM HD100
120*	HIM HD120



Alumina head 12/14

Dimension	Diameter	Ref.
Short neck (-3,5)	28	HAT CC428
Standard neck (0)	28	HAT CM428
Long neck (+3,5)	28	HAT CL428
Short neck (-4)	32	HAT CC432
Standard neck (0)	32	HAT CM432
Long neck (+4)	32	HAT CL432
Short neck (-4)*	36	HAT CC436
Standard neck (0)*	36	HAT CM436
Long neck (+4)*	36	HAT CL436



Metal head 12/14

Dimension	Diameter	Ref.
Standard neck (0)	22,2	HIT CM422
Long neck (+3)	22,2	HIT CL422
Short neck (-3,5)	28	HIT CC428
Standard neck (0)	28	HIT CM428
Long neck (+3,5)	28	HIT CL428
X-Long neck (+7)	28	HIT CX428



INTEGRA plate

Ref.
HIP VT250

Range of INTEGRA revision cups



INTEGRA HAP REV cup

Size	Ref.
50	HIC AP050
54	HIC AP054
58	HIC AP058
62	HIC AP062



INTEGRA HAP cup

Size	Ref.
50	HIC AV050
54	HIC AV054
58	HIC AV058
62	HIC AV062



INTEGRA Insert

Size	Ref.
50	HII DA050
54	HII DA054
58	HII DA058
62	HII DA062



Dual-mobility liner


















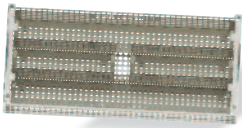
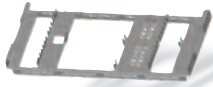
Correspondence INTEGRA cup	Size Quattro	Diameter	Ref.
50	42	22,2	HIN DA250
54	46	22,2	HQN DP246
58	50	28	HQN DM850
62	54	28	HQN DM854



Cancellous screw Ø9,5 mm
















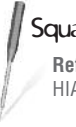






Length	Ref.
20	HIV 95020
25	HIV 95025
30	HIV 95030
35	HIV 95035
40	HIV 95040
45	HIV 95045
50	HIV 95050
55	HIV 95055
60	HIV 95060

INTEGRA revision stems

 <p>INTEGRA trial stem</p> <table border="0"> <thead> <tr> <th>Size</th> <th>Length (mm)</th> <th>Ref.</th> </tr> </thead> <tbody> <tr><td>11</td><td>140</td><td>HIA DE114</td></tr> <tr><td>11</td><td>160</td><td>HIA DE116</td></tr> <tr><td>11</td><td>200</td><td>HIA DE120</td></tr> <tr><td>11</td><td>240</td><td>HIA DE124</td></tr> <tr><td>13</td><td>140</td><td>HIA DE314</td></tr> <tr><td>13</td><td>160</td><td>HIA DE316</td></tr> <tr><td>13</td><td>200</td><td>HIA DE320</td></tr> <tr><td>13</td><td>240</td><td>HIA DE324</td></tr> <tr><td>15</td><td>140</td><td>HIA DE514</td></tr> <tr><td>15</td><td>160</td><td>HIA DE516</td></tr> <tr><td>15</td><td>200</td><td>HIA DE520</td></tr> <tr><td>15</td><td>240</td><td>HIA DE524</td></tr> <tr><td>17</td><td>140</td><td>HIA DE714</td></tr> <tr><td>17</td><td>160</td><td>HIA DE716</td></tr> <tr><td>17</td><td>200</td><td>HIA DE720</td></tr> <tr><td>17</td><td>240</td><td>HIA DE724</td></tr> </tbody> </table>	Size	Length (mm)	Ref.	11	140	HIA DE114	11	160	HIA DE116	11	200	HIA DE120	11	240	HIA DE124	13	140	HIA DE314	13	160	HIA DE316	13	200	HIA DE320	13	240	HIA DE324	15	140	HIA DE514	15	160	HIA DE516	15	200	HIA DE520	15	240	HIA DE524	17	140	HIA DE714	17	160	HIA DE716	17	200	HIA DE720	17	240	HIA DE724	 <p>INTEGRA trial meta block</p> <table border="0"> <thead> <tr> <th>Height</th> <th>Ref.</th> </tr> </thead> <tbody> <tr><td>30</td><td>HIA BE030</td></tr> <tr><td>40</td><td>HIA BE040</td></tr> <tr><td>60</td><td>HIA BE060</td></tr> <tr><td>80*</td><td>HIA BE080</td></tr> <tr><td>100*</td><td>HIA BE100</td></tr> <tr><td>120*</td><td>HIA BE120</td></tr> </tbody> </table>	Height	Ref.	30	HIA BE030	40	HIA BE040	60	HIA BE060	80*	HIA BE080	100*	HIA BE100	120*	HIA BE120	 <p>Trial meta block screw</p> <p>Ref. HIAVB030</p>	 <p>INTEGRA stem impactor</p> <p>Ref. HIAIT001</p>
Size	Length (mm)	Ref.																																																																		
11	140	HIA DE114																																																																		
11	160	HIA DE116																																																																		
11	200	HIA DE120																																																																		
11	240	HIA DE124																																																																		
13	140	HIA DE314																																																																		
13	160	HIA DE316																																																																		
13	200	HIA DE320																																																																		
13	240	HIA DE324																																																																		
15	140	HIA DE514																																																																		
15	160	HIA DE516																																																																		
15	200	HIA DE520																																																																		
15	240	HIA DE524																																																																		
17	140	HIA DE714																																																																		
17	160	HIA DE716																																																																		
17	200	HIA DE720																																																																		
17	240	HIA DE724																																																																		
Height	Ref.																																																																			
30	HIA BE030																																																																			
40	HIA BE040																																																																			
60	HIA BE060																																																																			
80*	HIA BE080																																																																			
100*	HIA BE100																																																																			
120*	HIA BE120																																																																			
		 <p>Hexagonal screwdriver 4,5</p> <p>Ref. HL1609-004</p>	 <p>Head impaction end</p> <p>Ref. HTA TA040</p>																																																																	
	 <p>Head impaction tip</p> <p>Ref. HMA TA008</p>	 <p>Block impaction end</p> <p>Ref. HIA GS009</p>	 <p>Extraction hook Ø 6</p> <p>Ref. HIA GS005</p>																																																																	
	 <p>Locking screw gauge</p> <p>Ref. HIA GV004</p>	 <p>Drill Ø 5,5</p> <p>Ref. HIA MV055</p>	 <p>Guiding sleeve + insert</p> <p>Ref. HIA GV002</p>																																																																	
 <p>INTEGRA block/stem separator</p> <p>Ref. HIAAM001</p>	 <p>Flexible reamer</p> <table border="0"> <thead> <tr> <th>Diameter</th> <th>Ref.</th> </tr> </thead> <tbody> <tr><td>11</td><td>HL1300-021</td></tr> <tr><td>12</td><td>HL1300-022</td></tr> <tr><td>13</td><td>HL1300-023</td></tr> <tr><td>14</td><td>HL1300-024</td></tr> <tr><td>15</td><td>HL1300-025</td></tr> <tr><td>16</td><td>HL1300-026</td></tr> <tr><td>17</td><td>HL1300-027</td></tr> <tr><td>18</td><td>HL1300-028</td></tr> </tbody> </table>	Diameter	Ref.	11	HL1300-021	12	HL1300-022	13	HL1300-023	14	HL1300-024	15	HL1300-025	16	HL1300-026	17	HL1300-027	18	HL1300-028	 <p>INTEGRA visor</p> <p>Ref. HIAVV004</p>	 <p>Trial head 12/14</p> <table border="0"> <thead> <tr> <th>Size</th> <th>Diameter</th> <th>Ref.</th> </tr> </thead> <tbody> <tr><td>Standard neck (0)</td><td>22,2</td><td>HTA CM422</td></tr> <tr><td>Long neck (+3)</td><td>22,2</td><td>HTA CL422</td></tr> <tr><td>Short neck (-3,5)</td><td>28</td><td>HTA CC428</td></tr> <tr><td>Standard neck (0)</td><td>28</td><td>HTA CM428</td></tr> <tr><td>Long neck (+3,5)</td><td>28</td><td>HTA CL428</td></tr> <tr><td>X-Long neck (+7)</td><td>28</td><td>HTA CX428</td></tr> <tr><td>Short neck (-4)</td><td>32</td><td>HTA CC432</td></tr> <tr><td>Standard neck (0)</td><td>32</td><td>HTA CM432</td></tr> <tr><td>Long neck (+4)</td><td>32</td><td>HTA CL432</td></tr> <tr><td>Short neck (-4)*</td><td>36</td><td>HTA CC436</td></tr> <tr><td>Standard neck (0)*</td><td>36</td><td>HTA CM436</td></tr> <tr><td>Long neck (+4)*</td><td>36</td><td>HTA CL436</td></tr> </tbody> </table>	Size	Diameter	Ref.	Standard neck (0)	22,2	HTA CM422	Long neck (+3)	22,2	HTA CL422	Short neck (-3,5)	28	HTA CC428	Standard neck (0)	28	HTA CM428	Long neck (+3,5)	28	HTA CL428	X-Long neck (+7)	28	HTA CX428	Short neck (-4)	32	HTA CC432	Standard neck (0)	32	HTA CM432	Long neck (+4)	32	HTA CL432	Short neck (-4)*	36	HTA CC436	Standard neck (0)*	36	HTA CM436	Long neck (+4)*	36	HTA CL436								
Diameter	Ref.																																																																			
11	HL1300-021																																																																			
12	HL1300-022																																																																			
13	HL1300-023																																																																			
14	HL1300-024																																																																			
15	HL1300-025																																																																			
16	HL1300-026																																																																			
17	HL1300-027																																																																			
18	HL1300-028																																																																			
Size	Diameter	Ref.																																																																		
Standard neck (0)	22,2	HTA CM422																																																																		
Long neck (+3)	22,2	HTA CL422																																																																		
Short neck (-3,5)	28	HTA CC428																																																																		
Standard neck (0)	28	HTA CM428																																																																		
Long neck (+3,5)	28	HTA CL428																																																																		
X-Long neck (+7)	28	HTA CX428																																																																		
Short neck (-4)	32	HTA CC432																																																																		
Standard neck (0)	32	HTA CM432																																																																		
Long neck (+4)	32	HTA CL432																																																																		
Short neck (-4)*	36	HTA CC436																																																																		
Standard neck (0)*	36	HTA CM436																																																																		
Long neck (+4)*	36	HTA CL436																																																																		
 <p>Stem guide for flexible reamer</p> <p>Ref. HL1300-031</p>																																																																				
 <p>Instrument rack INTEGRA</p> <p>Universal rack H78 492/68/H56 + 10 bowl 230/68/H56 + 10 bowl 474/138/H56 + 10 bowl 2 handles rack top</p>	<p>Ref. UCAPA001 UCAEC003 UCAEC004 UCAEC005 GNANW180</p>	 <p>Flexible reamer rack</p> <p>Ref. HMA PP02</p>																																																																		

*On special request

INTEGRA cup with screws and peg

 <p>INTEGRA trial REV cup</p> <table border="0"> <thead> <tr> <th>Size</th> <th>Ref.</th> </tr> </thead> <tbody> <tr><td>50</td><td>HIA CE050</td></tr> <tr><td>54</td><td>HIA CE054</td></tr> <tr><td>58</td><td>HIA CE058</td></tr> <tr><td>62</td><td>HIA CE062</td></tr> </tbody> </table>	Size	Ref.	50	HIA CE050	54	HIA CE054	58	HIA CE058	62	HIA CE062	 <p>INTEGRA insert impactor</p> <table border="0"> <thead> <tr> <th>Size</th> <th>Ref.</th> </tr> </thead> <tbody> <tr><td>50</td><td>HIA CX050</td></tr> <tr><td>54</td><td>HIA CX054</td></tr> <tr><td>58</td><td>HIA CX058</td></tr> <tr><td>62</td><td>HIA CX062</td></tr> </tbody> </table>	Size	Ref.	50	HIA CX050	54	HIA CX054	58	HIA CX058	62	HIA CX062	 <p>Dual-mob trial liner</p> <table border="0"> <thead> <tr> <th>Size</th> <th>Diameter</th> <th>Ref.</th> </tr> </thead> <tbody> <tr><td>42</td><td>22,2</td><td>HQA VN242</td></tr> <tr><td>46</td><td>22,2</td><td>HQA VN246</td></tr> <tr><td>50</td><td>28</td><td>HQA VN850</td></tr> <tr><td>54</td><td>28</td><td>HQA VN854</td></tr> </tbody> </table>	Size	Diameter	Ref.	42	22,2	HQA VN242	46	22,2	HQA VN246	50	28	HQA VN850	54	28	HQA VN854	 <p>Big drill guide Ø 3,2</p> <p>Ref. HIA CX002</p>	 <p>Stem guide</p> <p>Ref. HIA CX003</p>
Size	Ref.																																						
50	HIA CE050																																						
54	HIA CE054																																						
58	HIA CE058																																						
62	HIA CE062																																						
Size	Ref.																																						
50	HIA CX050																																						
54	HIA CX054																																						
58	HIA CX058																																						
62	HIA CX062																																						
Size	Diameter	Ref.																																					
42	22,2	HQA VN242																																					
46	22,2	HQA VN246																																					
50	28	HQA VN850																																					
54	28	HQA VN854																																					
			 <p>Graft obturator</p> <p>Ref. HIA CX004</p>	 <p>Bayonet drill Ø 3,2 L56</p> <p>Ref. HL3010-000-17</p>																																			
 <p>Liner impactor</p> <p>Ref. HQA VI011</p>	 <p>M10 orientable impactor</p> <p>Ref. HL1300-005</p>	 <p>Remov orientation device Ø 26</p> <p>Ref. HCAOA026</p>	 <p>Hexagonal screwdriver 3,5 L 350</p> <p>Ref. HL3010-100-25</p>	 <p>Cardan screwdriver hex 3,5</p> <p>Ref. HL1300-010</p>																																			
 <p>Impactor end*</p> <p>Ref. HQA VI013</p>	 <p>Bayonet flexible shaft</p> <p>Ref. HL3010-000-15</p>	 <p>Gauge</p> <p>Ref. HL3010-200-07</p>	 <p>Square tip</p> <p>Ref. HIA CX006</p>	 <p>Palpation hook</p> <p>Ref. HIA CX005</p>																																			
 <p>M10 trial cup</p> <table border="0"> <thead> <tr> <th>Diameter</th> <th>Ref.</th> </tr> </thead> <tbody> <tr><td>50</td><td>HL3010-150</td></tr> <tr><td>54</td><td>HL3010-154</td></tr> <tr><td>58</td><td>HL3010-158</td></tr> <tr><td>62</td><td>HL3010-162</td></tr> </tbody> </table>	Diameter	Ref.	50	HL3010-150	54	HL3010-154	58	HL3010-158	62	HL3010-162	 <p>M10 head impaction tip</p> <p>Ref. HMA TA008</p>	 <p>M10 impaction end</p> <p>Ref. HMA TA009</p>	 <p>INTEGRA cup display rack</p> <p>Ref. HIA CX001</p>	 <p>Standard rack H80</p> <p>Ref. UCA PV080</p>																									
Diameter	Ref.																																						
50	HL3010-150																																						
54	HL3010-154																																						
58	HL3010-158																																						
62	HL3010-162																																						

Range of MBA femoral stems



MBA HAP stem, neck 12/14

Size	Side	Ref.
1 (monobloc)	right	HMT HD141
2	right	HL1300-00-102
3	right	HL1300-00-103
4	right	HL1300-00-104
5	right	HL1300-00-105
6	right	HL1300-00-106
7	right	HL1300-00-107
1 (monobloc)	left	HMT HG141
2	left	HL1300-01-102
3	left	HL1300-01-103
4	left	HL1300-01-104
5	left	HL1300-01-105
6	left	HL1300-01-106
7	left	HL1300-01-107



MBA CEM stem, neck 12/14

Size	Side	Ref.
2	right	HL1300-00-002
3	right	HL1300-00-003
4	right	HL1300-00-004
5	right	HL1300-00-005
2	left	HL1300-01-002
3	left	HL1300-01-003
4	left	HL1300-01-004
5	left	HL1300-01-005



MBA mod neck straight 12/14

Size	Ref.
unique	HMB DR141



MBA mod neck oblique 12/14

Size	Ref.
unique	HMB IN001



Metal head 12/14

Dimension	Diameter	Ref.
Standard neck (0)	22,2	HIT CM422
Long neck (+3)	22,2	HIT CL422
Short neck (-3,5)	28	HIT CC428
Standard neck (0)	28	HIT CM428
Long neck (+3,5)	28	HIT CL428
X-Long neck (+7)	28	HIT CX428



Alumina head 12/14

Dimension	Diameter	Ref.
Short neck (-3,5)	28	HAT CC428
Standard neck (0)	28	HAT CM428
Long neck (+3,5)	28	HAT CL428
Short neck (-4)	32	HAT CC432
Standard neck (0)	32	HAT CM432
Long neck (+4)	32	HAT CL432



Alumina head Biolox Delta 12/14*

Dimension	Diameter	Ref.
Short neck (-4)	36	HAT CC436
Standard neck (0)	36	HAT CM436
Long neck (+4)	36	HAT CL436

MBA acetabular cup



MBA HAP cup

Size	Ref.
46	HL4200-046
48	HL4200-048
50	HL4200-050
52	HL4200-052
54	HL4200-054
56	HL4200-056
58	HL4200-058
60	HL4200-060
62	HL4200-062



UPE cover insert

Size	Diameter	Ref.
46	22,2	HL4200-22-046
48	22,2	HL4200-22-048
46	28	HL4200-28-046
48	28	HL4200-28-048
50	28	HL4200-28-050
52	28	HL4200-28-052
54	28	HL4200-28-054
56	28	HL4200-28-056
58	28	HL4200-28-058
60	28	HL4200-28-060
62	28	HL4200-28-062



UPE constr insert*
















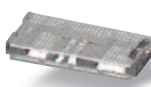
Size	Diameter	Ref.
48	22,2	HL4201-22-048
50	22,2	HL4201-22-050
52	22,2	HL4201-22-052
54	22,2	HL4201-22-054
56	22,2	HL4201-22-056
58	22,2	HL4201-22-058
60	22,2	HL4201-22-060
62	22,2	HL4201-22-062
50	28	HL4201-28-050
52	28	HL4201-28-052
54	28	HL4201-28-054
56	28	HL4201-28-056
58	28	HL4201-28-058
60	28	HL4201-28-060
62	28	HL4201-28-062






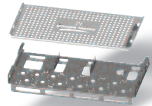
Cancellous screw Ø5,5 mm

Length	Ref.
20	HUV 55020
25	HUV 55025
30	HUV 55030
35	HUV 55035
40	HUV 55040
45	HUV 55045
















MBA stem

 MBA stem inserter Ref. HL1300-001	 Double taper/neck removal tool Ref. HL1300-004	 Hexagonal screwdriver 3,5 L240 Ref. HL1300-007	 M10 head impaction tip Ref. HMA TA008
 Impactor M10 Ref. HTA TA040	 MBA stem extractor Ref. HMA TA001	 MBA 12/14 trial mod neck Ref. HMA BE141	 MBA 12/14 trial mod neck oblique Ref. HMA BE001
 MBA rasp Size Side Ref. 2 right HL1300-100-02 3 right HL1300-100-03 4 right HL1300-100-04 5 right HL1300-100-05 6 right HL1300-100-06 7 right HL1300-100-07 2 left HL1300-101-02 3 left HL1300-101-03 4 left HL1300-101-04 5 left HL1300-101-05 6 left HL1300-101-06 7 left HL1300-101-07	 MBA right rasp holder Ref. HMA TA003	 MBA left rasp holder Ref. HMA TA004	 Trial head 12/14 Size Diameter Ref. Standard neck (0) 22,2 HTA CM422 Long neck (+3) 22,2 HTA CL422 Short neck (-3,5) 28 HTA CG428 Standard neck (0) 28 HTA CM428 Long neck (+3,5) 28 HTA CL428 X-Long neck (+7) 28 HTA CX428 Short neck (-4) 32 HTA CC432 Standard neck (0) 32 HTA CM432 Long neck (+4) 32 HTA CL432 Short neck (-4)* 36 HTA CC436 Standard neck (0)* 36 HTA CM436 Long neck (+4)* 36 HTA CL436
 Punch chisel Ref. HL1300-456	 MBA rasp trial neck 12/14 Ref. HMA CR141	 Rack bowl Ref. UCA EC001	 MBA stem rack Ref. HMA CA003

Cup reamer

 Cup reamer Diameter Ref. 42 HL3010-242 44 HL3010-244 46 HL3010-246 48 HL3010-248 50 HL3010-250 52 HL3010-252 54 HL3010-254 56 HL3010-256 58 HL3010-258 60 HL3010-260 62 HL3010-262	 Cup reamer holder Diameter Ref. 42 HL3010-342 44 HL3010-344 46 HL3010-346 48 HL3010-348 50 HL3010-350 52 HL3010-352 54 HL3010-354 56 HL3010-356 58 HL3010-358 60 HL3010-360 62 HL3010-362	 Cup reamer axis Ref. HL3010-200-20	 Cup reamers rack Ref. HUA FC002
---	---	---	---

MBA cup

 Orientable Impactor M10 Ref. HL1300-005	 Remov orientation device Ø 26 Ref. HCAQA026	 Acetab gripper Ø 22,2 Ref. HCPPA022	 Acetab gripper Ø 28 Ref. HCPPA028
 Constr acetab gripper Ø 22,2 Ref. HCPPA122	 Impaction end flat M10 Ref. HL1300-005-04	 Impaction end cover M10 Ref. HL1300-005-03	 Drill guide Ø 3,2 Ref. HL1300-013
 M10 trial cup Diameter Ref. 46 HL3010-146 48 HL3010-148 50 HL3010-150 52 HL3010-152 54 HL3010-154 56 HL3010-156 58 HL3010-158 60 HL3010-160 62 HL3010-162	 Gauge Ref. HL3010-200-07	 Cardan screwdriver hex 3,5 Ref. HL1300-010	 Bayonet flexible shaft Ref. HL3010-000-15
 Bayonet drill Ø 3,2 L56 Ref. HL3010-000-17	 Releasing key Diameter Ref. 22,2 HCA CD022 28 HCA CD028	 Cementless acetabular rack Ref. HCA PA001	